

**Beamline Research Scientist - 96504**  
**Division: MB-Molecular Biophys & Integ Bio**

Berkeley Lab's Molecular Biophysics & Integrated Bioimaging (MBIB) Division is looking for a Beamline Research Scientist to join the Berkeley Center for Structural Biology (BCSB) to provide technical and scientific support for users at the Advanced Light Source (ALS)!

In this exciting role, you will ensure that beamlines are maintained in an optimal working state, including providing daily quality control on beamline startups, maintaining, and providing up-to-date training on beamline procedures, and overseeing regular maintenance of beamline equipment. You will work closely with BCSB staff and users to determine beamline upgrade needs, lead instrumentation, and software projects accordingly. Additionally, you will have the opportunity to participate in development of the long-term strategic planning of the BCSB research program.

**What You Will Do:**

- Provide daily technical support for users regarding data collection, processing, archiving, and analysis. This includes being available during off-hours and on weekends for support as needed.
- Provide daily oversight of beamline startups and staff interactions with users.
- Follow-up with users after beamtime to assess beamline performance.
- Provide daily and weekly summaries of beamline issues for staff and users.
- Train beamline staff in maintenance, calibration, and alignment procedures relevant to the BCSB beamlines.
- Maintain a database of procedures, staff training, and startup issues.
- Play a leadership role in hardware and software projects to advance the capabilities of the BCSB beamlines including development of automated pipelines.
- Work closely with the Berkeley Lab, ALS, and BCSB technical staff in developing new beamline capabilities.
- Collaborate with colleagues both internal and external to the Berkeley Lab on research in fields related to biological crystallography.

**What is Required:**

- A minimum of 2 years of relevant experience beyond the highest customary degree in Physics, Biology, Bioengineering, Biophysics, or a related discipline.
- Experience with the operation of synchrotron beamlines in support of users.
- Knowledge and abilities in beamline and instrumentation controls.
- Strong analytical skills including the ability to problem solve, troubleshoot issues, and recommend solutions.
- Excellent oral and written communication skills including the ability to organize, record, and maintain accurate laboratory records and data.
- Demonstrated interpersonal skills including the ability to work in a collaborative interdisciplinary team environment.
- Must have the ability to perform the physical requirements of the position including: lift up to 20 lbs, climb ladders, and use hand tools.
- Must be available to work outside of normal business hours (8:00 am - 5:00 pm) as needed.

**What We Prefer:**

- Ph.D. in Physics, Biology, Bioengineering, Biophysics, or a related discipline.
- Experience with beamline design, optics, and ray tracing.
- Experience with macromolecular crystallography beamlines and serial crystallography.
- Experience in the use of computer programs required for biological crystallography.
- Demonstrated ability to independently carry out research projects.
- Demonstrated ability to solve three dimensional structure of biological biomolecules using the technique of macromolecular crystallography.
- Proven development of new approaches in macromolecular crystallography.

**For full consideration, please apply by September 26, 2022 with the following application materials:**

- Cover Letter - Describe your interest in this position and the relevance of your background.
- Curriculum Vitae (CV) or Resume.

**Notes:**

- This is a full time, exempt (monthly paid) from overtime pay, 2 year, career track term appointment that may be renewed to a maximum of five years and that may be converted to career based upon satisfactory job performance, continuing availability of funds, and ongoing operational needs.
- This position will be hired at a level commensurate with the business needs and the skills, knowledge, and abilities of the successful candidate.
- Salary is commensurate with experience.
- This position may be subject to a background check. Any convictions will be evaluated to determine if they directly relate to the responsibilities and requirements of the position. Having a conviction history will not automatically disqualify an applicant from being considered for employment.
- Work will be performed onsite at Lawrence Berkeley National Lab, 1 Cyclotron Road, Berkeley, CA.

**How To Apply**

Apply directly online at <http://50.73.55.13/counter.php?id=238380> and follow the on-line instructions to complete the application process.

**Learn About Us:**

Berkeley Lab (LBNL, <http://www.lbl.gov/>) addresses the world's most urgent scientific challenges by advancing sustainable energy, protecting human health, creating new materials, and revealing the origin and fate of the universe. Founded in 1931, Berkeley Lab's scientific expertise has been recognized with 14 Nobel prizes. The University of California manages Berkeley Lab for the U.S. Department of Energy's Office of Science.

Working at Berkeley Lab has many rewards including a competitive compensation program, excellent health and welfare programs, a retirement program that is second to none, and outstanding development opportunities. To view information about the many rewards that are offered at Berkeley Lab- Click Here (<https://benefits.lbl.gov/>).

Based on University of California Policy - SARS-CoV-2 (COVID-19) Vaccination Program and U.S Federal Government requirements, Berkeley Lab requires that all members of our community obtain the COVID-19 vaccine as soon as they are eligible. As a condition of employment at Berkeley Lab, all Covered Individuals must Participate in the COVID-19 Vaccination Program by providing proof of Full Vaccination or submitting a request for Exception or Deferral. Visit [covid.lbl.gov](https://covid.lbl.gov) (<https://covid.lbl.gov/>) for more information.

Berkeley Lab is committed to Inclusion, Diversity, Equity and Accountability (IDEA, <https://diversity.lbl.gov/ideaberkeleylab/>) and strives to continue building community with these shared values and commitments. Berkeley Lab is an Equal Opportunity and Affirmative Action Employer. We heartily welcome applications from women, minorities, veterans, and all who would contribute to the Lab's mission of leading scientific discovery, inclusion, and professionalism. In support of our diverse global community, all qualified applicants will be considered for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or protected veteran status.

Equal Opportunity and IDEA Information Links:

Know your rights, click here (<https://www.dol.gov/agencies/ofccp/posters>) for the supplement: Equal Employment Opportunity is the Law and the Pay Transparency Nondiscrimination Provision ([https://www.dol.gov/sites/dolgov/files/ofccp/pdf/pay-transp\\_%20English\\_formattedESQA508c.pdf](https://www.dol.gov/sites/dolgov/files/ofccp/pdf/pay-transp_%20English_formattedESQA508c.pdf)) under 41 CFR 60-1.4.

**Natalie Brown**

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